

FIGURE 1

Human Coch-5B2 cDNA Sequence

1 GCACTCGGGC GCAGCCGGGT GGATCTCGAG CAGGTGTGAG
CAGCCTATCA GTCACCATGT CCGCAGCCTG GATCCCGGCT CTCGGCCTCG
GTGTGTGTCT GCTGCTGCTG CCGGGGCCCC CGGGCAGCGA GGGAGCCGCT
CCCATTGCTA TCACATGTTT TACCAGAGGC TTGGACATCA GGAAAGAGAA
AGCAGATGTC CTCTGCCCAG GGGGCTGCCC TCTTGAGGAA TTCTCTGTGT
ATGGGAACAT AGTATATGCT TCTGTATCGA GCATATGTGG GGCTGCTGTC
CACAGGGGAG TAATCAGCAA CTCAGGGGGA CCTGTACGAG TCTATAGCCT
ACCTGGTCGA GAAAACCTATT CCTCAGTAGA TGCCAATGGC ATCCAGTCTC
AAATGCTTTC TAGATGGTCT GCTTCTTTCA CAGTAACTAA AGGCAAAAGT
AGTACACAGG AGGCCACAGG ACAAGCAGTG TCCACAGCAC ATCCACCAAC
AGGTAAACGA CTAAAGAAAA CACCCGAGAA GAAAACCTGGC AATAAAGATT
GTAAAGCAGA CATTGCATTT CTGATTGATG GAAGCTTTAA TATTGGGCAG
CGCCGATTTA ATTTACAGAA GAATTTTGTT GGAAAAGTGG CTCTAATGTT
GGGAATTGGA ACAGAAGGAC CACATGTGGG CTTGTGTTCAA GCCAGTGAAC
ATCCCAAAAT AGAATTTTAC TTGAAAAACT TTACATCAGC CAAAGATGTT
TTGTTTGCCA TAAAGGAAGT AGGTTTCAGA GGGGGTAATT CCAATACAGG
AAAAGCCTTG AAGCATACTG CTCAGAAATT CTTACGGTA GATGCTGGAG
TAAGAAAAGG GATCCCCAAA GTGGTGGTGG TATTTATTGA TGGTTGGCCT
TCTGATGACA TCGAGGAAGC AGGCATTGTG GCCAGAGAGT TTGGTGTCAA
TGTATTTATA GTTCTGTGG CCAAGCCTAT CCCTGAAGAA CTGGGGATGG
TTCAGGATGT CACATTTGTT GACAAGGCTG TCTGTCGGAA TAATGGCTTC
TTCTCTTACC ACATGCCCAA CTGGTTTGGC ACCACAAAAT ACGTAAAGCC
TCTGGTACAG AAGCTGTGCA CTCATGAACA AATGATGFGC AGCAAGACCT
GTTATAACTC AGTGAACATT GCCTTTCTAA TTGATGGCTC CAGCAGTGTT
GGAGATAGCA ATTTCCGCCT CATGCTTGAA TTTGTTTCCA ACATAGCCAA
GACTTTTGAA ATCTCGGACA TTGGTGCCAA GATAGCTGCT GTACAGTTTA
CTTATGATCA GCGCACGGAG TTCAGTTTCA CTGACTATAG CACCAAAGAG
AATGTCCTAG CTGTCATCAG AAACATCCGC TATATGAGTG GTGGAACAGC
TACTGGTGAT GCCATTTCTT TCACTGTTAG AAATGTGTTT GGCCCTATAA
GGGAGAGCCC CAACAAGAAC TTCCTAGTAA TTGTCACAGA TGGGCAGTCC
TATGATGATG TCCAAGGCCC TGCAGCTGCT GCACATGATG CAGGAATCAC
TATCTTCTCT GTTGGTGTGG CTTGGGCACC TCTGGATGAC CTGAAAGATA
TGGCTTCTAA ACCGAAGGAG TCTCATGCTT TCTTCACAAG AGAGTTCACA
GGATTAGAAC CAATTGTTTC TGATGTCATC AGAGGCATTT GTAGAGATTT
CTTAGAATCC CAGCAATAAT GGTAACATTT TGACAACTGA AAGAAAAAGT
ACAAGGGGAT CCAGTGTGTA AATTGTATTC TCATAATACT GAAATGCTTT
AGCATACTAG AATCAGATAC AAAACTATTA AGTATGTCAA CAGCCATTTA
GGCAAATAAG CACTCCTTTA AAGCCGCTGC CTTCTGGTTA CAATTTACAG
TGTACTTTGT TAAAAACACT GCTGAGGCTT CATAATCATG GCTCTTAGAA
ACTCAGGAAA GAGGAGATAA TGTGGATTAA AACCTTAAGA GTTCTAACCA
TGCCCTACTAA ATGTACAGAT ATGCAAATTC CATAGCTCAA TAAAAGAATC

FIGURE 1 (CONTINUED)

TGATACTTAG ACCAAAAGCA ACATTCGTTT TCTAACCATT CTGTATTGAT
TATATAAGCA AAATGAAAAG AGAACTTAA ATGAACACAG CTCTTTAACA
TGGTTCAGGT ACACATATTT TGACCCAAGT GGATATTTTC TTA AAAACCAA
TCAATAATAG CTAGCTATTA CTGCAGACTA TAAAATCTGG ATATAGAAAG
GAGACCTGTA TCAAACCTGCT TTTGTAGTGT GTTTTCATAA CAACTTATGA
CTAAAAATAT CACACTGAAT AAGAGAGCAG GATTGCCAGG TATTTTCTA
TTTCTCTCCT TAATTTTATA TGTATATAGA TATATTTGGC TTATATTCTA
AGTCACCTAA GTACTTAAAA GTTAAGTTGG TAAAGTATTT ACTGACTGCT
TATAACATT TAAAGACAAA GACATTTCAA ATA ACTGCAG AAAAAATATT
GTAGTTTGAA TATTTAAGCA ATAAACTGC TAGTGAGTTA TTGT

Human Coch-5B2 Amino Acid Sequence

1 MSAAWIPALG LGVCLLLLPG PAGSEGA API AITCFTRGLD IRKEKADVLC
PGGCPLEEFVS VYGNIVYASV SSICGAAVHR GVISNSGGPV RVYSLPGREN
YSSVDANGIQ SQMLSRWSAS FTVTKGKSST QEATGQAVST AHPPTGKRLK
KTPEKKTGNK DCKADIAFLI DGSFNIGQRR FNLQKNFVGK VALMLGIGTE
GPHVGLVQAS EHPKIEFYLK NFTSAKDVLF AIKEVGFRGG NSNTGKALKH
TAQKFFT VDA GVRKGIPKVV VVFIDGWPSD DIEEAGIVAR EFGVNVFIVS
VAKPIPEELG MVQDVTFVDK AVCRNNGFFS YHMPNWF GTT KYVKPLVQKL
CTHEQMMCSK TCYNSVNIAF LIDGSSSVGD SNFRLMLEFV SNIAKTFEIS
DIGAKIAAVQ FTYDQRTEFS FTDYSTKENV LAVIRNIRYM SGGTATGDAI
SFTVRNVFGP IRESPNKNFL VIVTDGQSYD DVQGPAAAAH DAGITIFSVG
VAWAPLDDLK DMASKPKESH AFFTREFTGL EPIVSDVIRG ICRDFLESQQ

FIGURE 2

Mouse Coch-5B2 cDNA Sequence

1 CGGAGCCGCG CTTGCCGCAC TCGGGTGTAG CCGGGCGGAT
CCCACGCAGG TCCACGGAGA TCCTCGCCAT GCCCTCGTCC AGGATCCCTG
CTCTCTGCCT CGGTGCGTGG CTGCTGCTGC TGCTGCTGCC CCGGTTTCGC
CGCGCCGAGG GAGCGGTTCC CATTCTGTG ACCTGCTTTA CCAGAGGCCT
GGATATCCGA AAAGAGAAAG CAGATGTTCT CTGCCCAGGA GGCTGCTCTC
TTGAGGAATT CTCTGTGTTT GGGAACATAG TGTATGCGTC AGTGTCCAGC
ATCTGCGGCG CTGCTGTCCA TAGGGGAGTG ATTGGCACCT CAGGGGGACC
TGTGCGTGTC TACAGCCTTC CTGGTCGAGA GAACTACTCC TCGGTAGATG
CCAACGGCAT CCAGTCTCAG ATGCTTTCCC GATGGTCCGC GTCCTTCGCT
GTGACCAAAG GCAAAGCAG TACCCAGGAA GCCACAGGAC GGGCAGTGTC
CACAGCCCAC CCACCTTCAG GTAAAAGACT AAAGAAGACA CCAGAGAAGA
AGACTGGCAA CAAAGACTGT AAGGCAGACA TTGCATTTCT CATTGATGGA
AGCTTCAATA TTGGGCAGCG CCGATTTAAT TTGCAGAAGA ATTTTGTGG
GAAAGTGGCA CTAATGTTGG GAATTGGAAC AGAAGGACCA CACGTGGGTC
TCGTTCAAGC CAGTGAACAC CCCAAAATAG AATTTTACTT GAAAACTTT
ACTTCAGCCA AAGATGTCTT GTTTGCCATA AAAGAAGTAG GTTCCGAGG
GGGTAAGTCC AACACAGGAA AAGCCTTGAA GCACACTGCT CAGAAATTCT
TTACAGCAGA CACTGGTGTG AGAAAAGGAA TACCAAAGT GGTGGTAGTG
TTTATTGATG GTTGGCCCTC TGATGACATT GAGGAAGCAG GCATTGTGGC
CAGAGAGTTT GGTGTCAATG TATTTATAGT TTCTGTGGCC AAGCCCATT
CTGAAGAACT GGGGATGGTT CAAGATGTTG CATTGTGTTGA CAAGGCTGTG
TGTCGGAATA ATGGCTTCTT CTCTTATCAC ATGCCCAACT GGTGTCAC
TACAAAATAT GTGAAGCCTC TGGTGCAGAA GCTCTGTACG CACGAACAGA
TGATGTGCAG CAAAACCTGC TACAACTCAG TGAACATTGC CTTTCTGATT
GACGGCTCCA GCAGTGTTGG AGATAGCAAT TTCCGCCTCA TGCTAGAATT
TGTTTCTAAC ATAGCGAAGA CATTGAAAT CTCAGACATT GGAGCCAAGA
TAGCTGCTGT ACAGTTCCTT TATGACCAGC GCACCGAGTT CAGTTTCACT
GACTATAATA CCAAAGAGAA CGTCTAGCT GTCCTAGCGA ACATCCGCTA
CATGAGTGGT GGCACAGCTA CTGGTGATGC CATCGCCTTT ACTGTTAGAA
ATGTATTTGG TCCCATAAGG GACAGCCCCA ACAAAAACCTT CCTGGTTATT
GTCACAGATG GGCAGTCCTA TGATGATGTC CGAGGCCCTG CTGCAGCTGC
CCATGATGCA GGTATCACCA TCTTCTCTGT TGGTGTGGCT TGGGCACCGC
TGGATGACCT GAGAGATATG GCCTCTAAAC CCAAAGAGTC ACACGCTTTC
TTTACCAGAG AGTTCACAGG GTTAGAACCA ATTGTCTCTG ACGTCATCAG
AGGCATTTGT AGAGACTTCT TAGAATCCCA GCAATAACCG AACTCTGAC
AACTCAAGGA ATACGTGCAA GGGGATCTAA TGTGCAAATT ATATTCTCAA
TGCCTATGTA ACTTTATAGC TTACCAGTGT CAAAAAATGC GTCCACAGCT
GTTTAAAGCA AATGAATATT CATGTGATGC TCACAATTTA GATTGGCCGA
GACTTGATAA TCAGGCCCTT AGAACTCAG GAAAGAAGAG TTGTCATGGA
TTAACATTGG GAGTTCAAAT ATGCATTCAA GTGGATAGGT AAGCTACACA
GCTCAATAAA AGAACCTGGC GCTTACACAC AAAGCACTGT TCCCTCTTA
ATCACTCTGC ATTGACCATG CAAGGAAAAC AGAACAGCTT TTAACACAG

FIGURE 2 (CONTINUED)

ATCAAGTATA CATATTTTGA CCCATGTGGA TGTTTTCTTA AAACCAGCCA
AGAACAGACA GCTGTTATTA TGTGCACTAG CCATAACTAC ACATTATATG
GAATCATATA TCAAGCTTCT TTTGTAGTGT GTTTTCATAA CTTGATGGCT
GAAATACCAC ACTGAGTAAA GGTAGGATTG CCTGGTATTT TTCTATTTAT
ATCCTTAATT TTATGTGTAT AGACAGGCAT GTACTCCGAG GACTAAGAAA
ATGTTTAAGC AGATAACTTT TTTTTTTTGA AAAAAAAGAT GTGTCAAGTA
TTGTAACCGA AAAAATACAC AGCTTAATAG CTTGGCTGTC AGCAATAAAA
CTGCTAGTGA CTAAG

Mouse Coch-5B2 Amino Acid Sequence

1 MPSSRIPALC LGAWLLLLLL PRFARAEGAV PIPVTCFTRG LDIRKEKADV
LCPGGCSLEE FSVFGNIVYA SVSSICGAAV HRGVIGTSGG PVRVYSLPGR
ENYSSVDANG IQSQMLSRWS ASFAVTKGKS STQEATGRAV STAHPPSGKR
LKKTPEKKTG NKDCKADIAF LIDGSFNIGQ RRFNLQKNFV GKVALMLGIG
TEGPHVGLVQ ASEHPKIEFY LKNFTSAKDV LFAIKEVGFR GGNSNTGKAL
KHTAQKFFTA DTGVRKGIPK VVVVFIDGWP SDDIEEAGIV AREFGVNVFI
VSVAKPIPEE LGMVQDVAFV DKAVCRNNGF FSYHMPNWFG TTKYVKPLVQ
KLCTHEQMMC SKTCYNSVNI AFLIDGSSSV GDSNFRLMLE FVSNIAKTFE
ISDIGAKIAA VQFTYDQRTE FSFTDYNTKE NVLAVLANIR YMSGGTATGD
AIAFTVRNVF GPIRDSNKN FLVIVTDGQS YDDVRGPAAA AHDAGITIFS
VGVAWAPLDD LRDMASKPKE SHAFFTREFT GLEPIVSDVI RGICRDFLES
QQ*

FIGURE 3

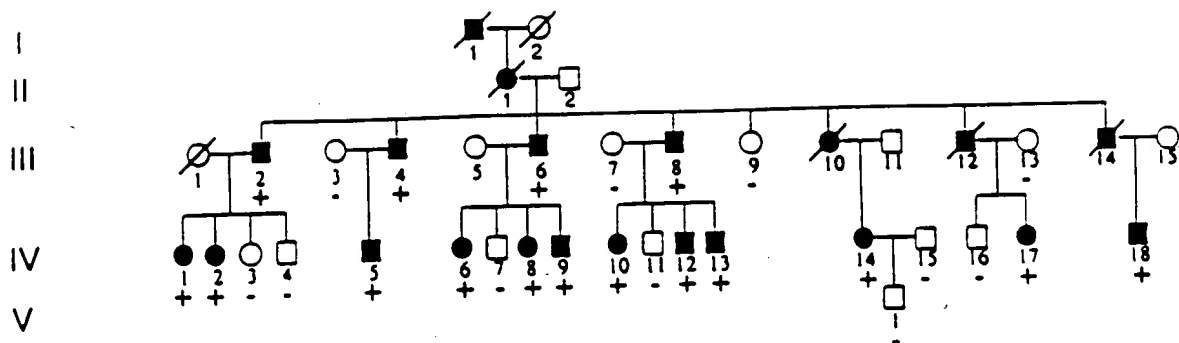
1 MSAAWIPALGLG VCLLLLPGPAGSEGAAPIAITCFTRGLDIRKEKADV 48
 1 .PSSR...C..AWLL.....RF.RA...V..PV..... 50
 49 LCPGGCPLLEFSVYGNIVYASVSSICGAAVHRGVISNSGGPVRVYSLPGR 98
 51S.....F.....GT..... 100
 99 ENYSSVDANGIQSQMLSRWSASFVTKGKSSTQEATGQAVSTAHPPTGKR 148
 101A.....R.....S... 150
 149 LKKTPEKKTGNKDCKADIAFLIDGSFNIGQRRFNLQKNFVGKVALMLGIG 198
 151 200
 199 TEGPHVGLVQASEHPKIEFYLNFTSAKDVLFAlKEVGFRGGNSNTGKAL 248
 201 250
 249 KHTAQKFFTVDAGVRKGIPKVVVVFIDGWPSDDIEEAGIVAREFGVNVFI 298
 251A.T..... 300
 299 VSVAKPIPEELGMVQDVTFDKAVCRNNGFFSYHMPNWFEGTTKYVKPLVQ 348
 301A..... 350
 349 KLCTHEQMMSKTCYNSVNI AFLIDGSSSVGDSNFRLMLEFVSNI AKT FE 398
 351 400
 399 ISDIGAKIAAVQFTYDQRTESFTDYSTKENVLAVIRNIRYMSGGTATGD 448
 401N.....LA..... 450
 449 AISFTVRNVFGPIRES PNKNFLVIVTDGQSYDDVQGPAAAAHDAGITIFS 498
 451 ..A.....D.....R..... 500
 499 VGVAWAPLDDLKDMASKPKESHAFFTREFTGLEPIVSDVIRGICRDFLES 548
 501R..... 550
 549 QQ* 550
 551 ... 552

FIGURE 5

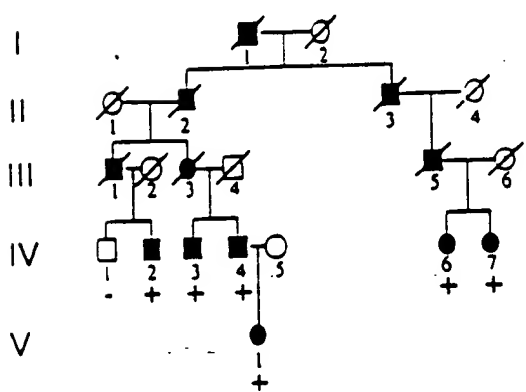


FIGURE 6

A



B



C

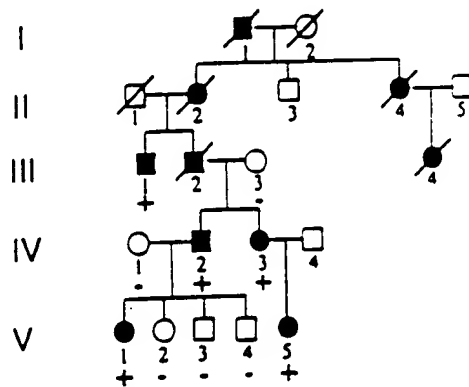


FIGURE 7

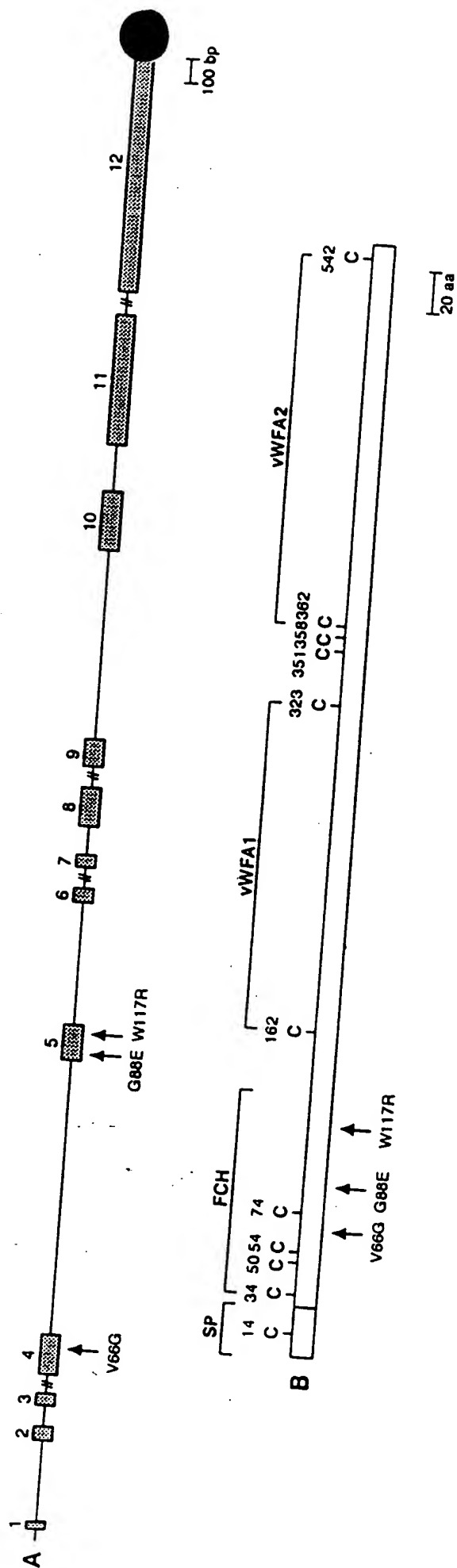


FIGURE 7 (CONTINUED)

C			G		
Coch-5B2 (Human)	1	MSAAMIPALGLVC--LLLLPGAGSEGAAPIAITCTFTRG--LDIRKEKADVUCGPGCQPLLEEFVYGNIVYA	68		
Coch-5B2 (M use)	1	PSSR...C..AWLL...RF.RA..V..PV...I..IS...F...	70		
Coch-5B2 (Chicken)	1	---QFAP.L..F---CGSAR..DSS.SN...I..TE...AN...WQ.Y.F.DG...H	64		
Factor C (Limulus)	331	...DSKAVDF..DVG.PVRIM...A...S..TAGT.W.TAI..H	368		
E			R		
69	SVSSICGAAVHRGVISNSG	CPVAVYSLPGRENYSSVDANGIQSQHLSMMSASFTVTGKKSST-QEATGQAVSTAHPPTGKRLKKTPEKRTG	158		
71	...GT...	...A...R...S...	160		
65	L...I...T.A..A..QT..Q...PA.H...V...AS..S..P.TNNLAL..V.RS.A..R.A...P...L...A..	155			
369	EL...V.R..I.A.KLP...A.H.VNNGPYSDFLGS.L...K.EE.KSLAR..RFDYVR..-AGRS..	435			
159	NKCKRADIAFLIDGSFNIGQRRENQKNEVGKVALMLGIGTEGPHVGLVQASEHPKIEFYLNKFTSAKDVLFAIKEVGFRGCNSNTGKALK	249			
161	...Y...	...A..E...L...	251		
156	...	...V...V...A..E...L...	246		
250	HTAQKFFTVDAGVRKGIPKVVUVFIDGWPSDDIEAGIVAREFGVNVFIVSVAKPIPEELGHMVQDVTFVDKAV	340			
252	...A.T...	...A...A...Q..S...	342		
247	A...SMEN.A...II...L...L...TT...	IG.I...I...Q..S...	337		
341	KYVKPLVQKUCCTHEQMCKSKTCYNSVNI	AFIDGSSSVGDSNFRMLHLEFVSNI	AKTFEISDIGAKIAAVQFTYDQRT	ESFTDYSTKENVL	431
343	...	...	...	N...	433
338	...	...	...	T...	428
432	AVIRNIRYMSGGTATGDAISFTVRNVFGPIRES	PNKFNFLVIVTDGQSYDDVQGPAAAAHDAGITIFS	VGVAWAPLDDLKDHASKPKESHAF	529	
434	LA...	A...D...R...	...	R...	524
429	SA...	T...VKDGA...L...R...V...QK...	...	E.R...T...	519
523	FTREFTGLEPIVSDVIRG	CDRFLESQQ*	550		
525	...	...	552		
520	...	Q.M.P...K...D.K.*	547		